

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	170	(ADC (analog near2 digital)) same ("7" near2 bit) 7-bit) same resolution	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L2	46561	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/12 16:38
L3	7	L2 and L1	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L4	5481	(wobbl\$3 wob\$3) near2 (signal data information)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L5	132762	LPF (low near2 pass near2 filter\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L6	2643	PRML (partial near2 respons\$3 near2 maximum near2 likelihood)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L7	1511543	filter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L8	2217	ADIP (address near2 (pregroove pre-groove groove))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L9	2121953	multiplexor multipl\$6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L10	51	L4 and L6 and L7 and L8 and L5 and L9	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L11	159	viterbi and PRML and Euclidean	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L12	41	L11 and L2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 17:02
L13	56	L4 and L6 and L7 and L8 and L5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 16:38
L14	919	mouri.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 17:03
L15	55355	okamoto.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 17:03

## EAST Search History

L16	19262	ogura.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 17:03
L17	1	14 and 15 and 16	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/12 17:03
L18	1	((band adj2 pass) BPF) and ((analog adj2 digital) ADC) and (ADIP (address adj3 (pre-groove pregroove))) and (PLL (phase adj1 locked adj1 loop)) and wobble and phase and PRML).clm.	US-PGPUB	OR	ON	2007/09/12 17:07
S1	1	("20040136300").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/16 19:07
S2	29407	binariz\$6 slicer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/16 19:08
S3	167835	ADC (analog near2 digital near2 convert\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/16 19:09
S4	1841	ADIP (address near2 (pregroove pre-groove groove))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/16 19:09
S5	504880	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/16 19:09
S6	68450	PLL (phase near2 lock\$2 near2 loop)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/16 19:10
S7	53780	(waveform wave-form (wave near2 form)) same (shap\$3 manipulats\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/16 19:11
S8	39882	(waveform wave-form (wave near2 form)) near10 (shap\$3 manipulats\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/16 19:12
S9	3	S2 S3 S4 S5 S6 S7 S8	US-PGPUB; USPAT; EPO; JPO	AND	ON	2006/08/16 19:13
S10	236	(369/47.27).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/16 19:13
S11	151	(369/53.33).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/16 19:13
S12	234	(369/47.22).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/16 19:13

## EAST Search History

S13	1850	ADIP (address near2 (pregroove pre-groove groove))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:13
S14	505873	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDRom DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:03
S15	168016	ADC (analog near2 digital near2 convert\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:16
S16	53822	(waveform wave-form (wave near2 form)) same (shap\$3 manipul\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:03
S17	39908	(waveform wave-form (wave near2 form)) near10 (shap\$3 manipul\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:14
S18	29429	binariz\$6 slicer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:03
S19	68518	PLL (phase near2 lock\$2 near2 loop)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:03
S20	3	S18 S15 S13 S14 S19 S16 S17	US-PGPUB; USPAT; EPO; JPO	AND	ON	2006/08/17 19:12
S21	151	(369/53.33).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/17 19:03
S22	234	(369/47.22).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/17 19:03
S23	1	("20040136300").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/17 19:03
S24	236	(369/47.27).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/17 19:05
S25	116463	phas\$3 near2 (adjust\$3 control\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:05
S26	2	S18 S15 S13 S14 S19 S17 S25	US-PGPUB; USPAT; EPO; JPO	AND	ON	2006/08/17 19:13
S27	2900	ADIP (address near2 (pregroove pre-groove groove)) ATIP	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:13
S28	2	S18 S15 S27 S14 S19 S17 S25	US-PGPUB; USPAT; EPO; JPO	AND	ON	2006/08/17 19:18

## EAST Search History

S30	283739	ADC (((analog near2 digital) AD "A/D") near2 convert\$4) "A/D"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:17
S31	151322	((waveform wave-form (wave near2 form)) near10 (shap\$3 manipul\$3)) ((bandpass band-pass (band near2 pass) digital) near2 filter\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 19:17
S32	11	S18 S30 S27 S14 S19 S31 S25	US-PGPUB; USPAT; EPO; JPO	AND	ON	2006/08/18 08:11
S33	4977	((infinity near1 impulse near1 response) IIR) near2 filter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 09:30
S34	1301	S33 near10 digital	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 08:13
S35	11	S34 near10 waveform	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 09:00
S36	4600	(wobbl\$3 wobbl\$3) near2 (signal data information)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 09:01
S37	4	S33 and S36	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 09:01
S38	120216	LPF (low near2 pass near2 filter\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 09:30
S39	752	S38 same S33	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 09:31
S40	2194	PRML (partial near2 respons\$3 near2 maximum near2 likelihood)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 14:33
S41	1368490	filter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 10:02
S42	1850	ADIP (address near2 (pregroove pre-groove groove))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 10:03
S43	58	S36 and S40 and S41 and S42	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 10:17
S44	23	S36 and S40 and S41 and S42 and S38	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 10:32

## EAST Search History

S45	1867728	multiplexor multipl\$6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 10:32
S46	19	S36 and S40 and S41 and S42 and S38 and S45	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 14:34
S47	66	(PRML (partial near2 respons\$3 near2 maximum near2 likelihood)) and "8T"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 14:34
S48	3	S36 and S47 and S41 and S42 and S38 and S45	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 14:36
S49	132	viterbi and PRML and Euclidean	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 14:37
S50	42816	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/08/18 14:37
S51	28	S49 and S50	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 14:39
S52	2321	DSV (digital near2 sum near2 value)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 14:53
S53	147	(ADC (analog near2 digital)) same ("7" near2 bit) 7-bit) same resolution	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 15:32
S54	33	(DSV (digital near2 sum near2 value)) and ADIP	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 14:53
S55	6	S50 and S53	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/18 15:32
S56	2053	ADIP (address near2 (pregroove pre-groove groove))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S57	564519	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S58	181171	ADC (analog near2 digital near2 convert\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S59	56824	(waveform wave-form (wave near2 form)) same (shap\$3 manipulats\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14

## EAST Search History

S60	42018	(waveform wave-form (wave near2 form)) near10 (shap\$3 manipulats\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S61	31422	binariz\$6 slicer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S62	73423	PLL (phase near2 lock\$2 near2 loop)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S63	3	S61 S58 S56 S57 S62 S59 S60	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/04/12 11:14
S64	159	(369/53.33).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S65	260	(369/47.22).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S66	1	("20040136300").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S67	268	(369/47.27).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S68	2053	ADIP (address near2 (pregroove pre-groove groove))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S69	260	(369/47.22).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S70	564519	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S71	56824	(waveform wave-form (wave near2 form)) same (shap\$3 manipulats\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S72	181171	ADC (analog near2 digital near2 convert\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S73	42018	(waveform wave-form (wave near2 form)) near10 (shap\$3 manipulats\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S74	73423	PLL (phase near2 lock\$2 near2 loop)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S75	31422	binariz\$6 slicer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14

## EAST Search History

S76	3	S75 S72 S68 S70 S74 S71 S73	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/04/12 11:14
S77	159	(369/53.33).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S78	1	("20040136300").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S79	268	(369/47.27).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S80	123673	phas\$3 near2 (adjust\$3 control\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S81	2	S75 S72 S68 S70 S74 S73 S80	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/04/12 11:14
S82	3218	ADIP (address near2 (pregroove pre-groove groove)) ATIP	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S83	160857	((waveform wave-form (wave near2 form)) near10 (shap\$3 manipul\$3)) ((bandpass band-pass (band near2 pass) digital) near2 filter\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S84	302871	ADC (((analog near2 digital) AD "A/D") near2 convert\$4) "A/D"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S85	14	S75 S84 S82 S70 S74 S83 S80	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/04/12 11:14
S86	2	S75 S72 S82 S70 S74 S73 S80	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/04/12 11:14
S87	5558	((infinity near1 impulse near1 response) IIR) near2 filter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S88	1420	S87 near10 digital	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S89	11	S88 near10 waveform	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S90	5116	(wobbl\$3 wob\$3) near2 (signal data information)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S91	127983	LPF (low near2 pass near2 filter\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14

## EAST Search History

S92	10	S87 and S90	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S93	859	S91 same S87	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S94	2448	PRML (partial near2 respons\$3 near2 maximum near2 likelihood)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S95	1456074	filter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S96	2053	ADIP (address near2 (pregroove pre-groove groove))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S97	159	(ADC (analog near2 digital)) same (("7" near2 bit) 7-bit) same resolution	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S98	79	S90 and S94 and S95 and S96	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S99	45163	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:14
S10 0	31	S90 and S94 and S95 and S96 and S91	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S10 1	2023240	multiplexor multipl\$6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S10 2	27	S90 and S94 and S95 and S96 and S91 and S101	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S10 3	90	(PRML (partial near2 respons\$3 near2 maximum near2 likelihood)) and "8T"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S10 4	3	S90 and S103 and S95 and S96 and S91 and S101	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S10 5	149	viterbi and PRML and Euclidean	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S10 6	33	S105 and S99	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S10 7	2519	DSV (digital near2 sum near2 value)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14



## EAST Search History

S10 8	46	(DSV (digital near2 sum near2 value)) and ADIP	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:14
S10 9	7	S99 and S97	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/04/12 11:22
S11 0	3	((("20010000694") or ("6483787") or ("6345024")).PN.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:22
S11 1	1	("6167415").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/12 11:58